

## EAST Search History (Prior Art)

| Ref # | Hits | Search Query                     | DBs   | Default Operator | Plurals | Time Stamp       |
|-------|------|----------------------------------|---|------------------|---------|------------------|
| L1    | 6280 | syngas                           | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | ADJ              | ON      | 2009/10/13 10:30 |
| L2    | 51   | ((STANLEY) near2 (PEARSON)).INV. | US-PGPUB;<br>USPAT;<br>USOCR                          | ADJ              | ON      | 2009/10/13 10:30 |
| L3    | 12   | "6274096"                        | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | ADJ              | ON      | 2009/10/13 10:30 |
| L4    | 18   | "5073356"                        | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | ADJ              | ON      | 2009/10/13 10:30 |
| L5    | 6280 | syngas                           | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | ADJ              | ON      | 2009/10/13 10:30 |
| L6    | 818  | L1 same reformer                 | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | ADJ              | ON      | 2009/10/13 10:30 |
| L7    | 196  | L6 same methanol                 | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | ADJ              | ON      | 2009/10/13 10:30 |
| L8    | 33   | L7 and (contact time)            | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | ADJ              | ON      | 2009/10/13 10:30 |
| L9    | 5    | L7 same (contact time)           | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | ADJ              | ON      | 2009/10/13 10:30 |
| L10   | 146  | (contact time) same reformer     | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | ADJ              | ON      | 2009/10/13 10:30 |

## EAST Search History (Prior Art)

|     |       |  |   |     |    |                  |
|-----|-------|--|---|-----|----|------------------|
| L11 | 5     | L10 and L7                               | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | ADJ | ON | 2009/10/13 10:30 |
| L12 | 0     | L11 not L9                               | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | ADJ | ON | 2009/10/13 10:30 |
| L13 | 13    | "4409405"                                | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | ADJ | ON | 2009/10/13 10:30 |
| L14 | 18    | syngas same reformer same (contact time) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | ADJ | ON | 2009/10/13 10:30 |
| L15 | 9     | "6028119"                                | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | ADJ | ON | 2009/10/13 10:30 |
| L16 | 20    | "4348487"                                | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | ADJ | ON | 2009/10/13 10:30 |
| L17 | 63308 | feedstock                                | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | ADJ | ON | 2009/10/13 10:30 |
| L18 | 1358  | L17 same syngas                          | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | ADJ | ON | 2009/10/13 10:30 |
| L19 | 143   | L18 same reformer                        | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | ADJ | ON | 2009/10/13 10:30 |
| L20 | 58    | L19 same temperature                     | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | ADJ | ON | 2009/10/13 10:30 |

## EAST Search History (Prior Art)

|     |        |                             |   |     |    |                  |
|-----|--------|-----------------------------|---|-----|----|------------------|
| L21 | 10     | L19 same (exit temperature) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | ADJ | ON | 2009/10/13 10:30 |
| L22 | 104362 | residence time              | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | ADJ | ON | 2009/10/13 10:30 |
| L23 | 238    | L22 same reformer           | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | ADJ | ON | 2009/10/13 10:30 |
| L24 | 21     | L23 same feedstock          | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | ADJ | ON | 2009/10/13 10:30 |
| L25 | 25     | L23 same syngas             | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | ADJ | ON | 2009/10/13 10:30 |
| L26 | 27     | "4872886"                   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | ADJ | ON | 2009/10/13 10:30 |
| L27 | 74     | adjusting contact time      | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | ADJ | ON | 2009/10/13 10:30 |
| L28 | 0      | adjusting the contact time  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | ADJ | ON | 2009/10/13 10:30 |
| L29 | 6      | L27 same syngas             | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | ADJ | ON | 2009/10/13 10:30 |
| L30 | 284    | adjusting residence time    | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | ADJ | ON | 2009/10/13 10:30 |

## EAST Search History (Prior Art)

|     |        |                                       |   |     |    |                  |
|-----|--------|---------------------------------------|---|-----|----|------------------|
| L31 | 0      | L30 same syngas                       | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | ADJ | ON | 2009/10/13 10:30 |
| L32 | 10     | L30 and syngas                        | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | ADJ | ON | 2009/10/13 10:30 |
| L33 | 0      | L30 same reformer                     | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | ADJ | ON | 2009/10/13 10:30 |
| L34 | 6      | L27 same reformer                     | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | ADJ | ON | 2009/10/13 10:30 |
| L35 | 159829 | (residence time) or (contact time)    | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | ADJ | ON | 2009/10/13 10:30 |
| L36 | 347305 | feedstock or methane or (natural gas) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | ADJ | ON | 2009/10/13 10:30 |
| L37 | 3523   | L36 same syngas                       | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | ADJ | ON | 2009/10/13 10:30 |
| L38 | 1096   | L35 and L37                           | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | ADJ | ON | 2009/10/13 10:30 |
| L39 | 303    | L38 and reformer                      | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | ADJ | ON | 2009/10/13 10:30 |
| L40 | 121    | L38 and (exit gas)                    | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | ADJ | ON | 2009/10/13 10:30 |

## EAST Search History (Prior Art)

|     |     |                   |   |     |    |                  |
|-----|-----|-------------------|---|-----|----|------------------|
| L41 | 56  | L39 and L40       | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | ADJ | ON | 2009/10/13 10:30 |
| L42 | 358 | L35 same syngas   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | ADJ | ON | 2009/10/13 10:30 |
| L43 | 40  | L42 same reformer | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | ADJ | ON | 2009/10/13 10:30 |
| L44 | 0   | ep0303438         | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | ADJ | ON | 2009/10/13 10:30 |
| L45 | 65  | "0303438"         | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | ADJ | ON | 2009/10/13 10:30 |
| L46 | 48  | EP "0303438"      | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | ADJ | ON | 2009/10/13 10:30 |
| L47 | 0   | "0303438"         | EPO; JPO;<br>DERWENT                                  | ADJ | ON | 2009/10/13 10:30 |

## EAST Search History (Interference)

|  |  |                                |  |  |  |
|--|--|--------------------------------|--|--|--|
|  |  | <This search history is empty> |  |  |  |
|--|--|--------------------------------|--|--|--|